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Synthesis, Thermogravimetric, Dielectric, Electrical, and Mössbauer Studies of the CuCrO2 Phase with the Delafossite Structure

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Thermogravimetric, X-ray diffraction, Mössbauer, dielectric, and electrical studies were performed on ceramic samples of the CuCrO2 phase with the delafossite structure synthesized by the method of solid-phase reactions. The effect of electric-field threshold switching of the studied samples from a high-resistance to a low-resistance state, which occurs in the temperature range of 170–200 K when a biasing electric field with a strength of >1 kV/cm is applied to the samples.

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